

CLAIMS:

1. Door actuator, particularly a door lock, for rail vehicles, having a spindle drive whose spindle is connected with a freewheel permitting the rotation of the spindle in the direction corresponding to the closing direction of the door and preventing the rotation of the spindle in the direction corresponding to the opening direction, the part of the freewheel (1) away from the spindle being mounted in a rotatable manner but being releasably fixed with respect to a release device (2) against the force of at least one contact pressure spring (5), by means of a coupling, brake or the like (3, 6), which can be released by means of a lifting magnet (8,8'),
characterized in that the brake, coupling or the like is fixed in its open position or can be fixed, and in that a closing magnet is provided.

2. Door actuator according to Claim 1,
characterized in that the closing magnet is constructed in the shape of a double-acting lifting magnet (8, 8').

3. Door actuator according to Claim 1 or 2,
characterized in that the coupling, brake or the like (3, 6) can be operated by a linkage (9), and in that a dead-center position is present between the released position of the linkage (9) and the locked position of the linkage (9).

4. Door actuator according to Claim 1,
characterized in that the linkage (9) has a lever which can be swiveled about an axis (12) and to whose arm the lifting magnet (8) is directly or indirectly applied, and whose other arm directly or indirectly carries rollers (10) with an aligned axis of rotation parallel to the axis (12) which bring the part (3) of the coupling, brake or the like movable between the released

position and the locked position from the locked into the released position, and in that the dead-center position is reached when the connection plane between the axis of rotation of the rollers (10) and the axis (12) is situated parallel to the moving direction of the movable part (3) of the coupling, brake or the like.

5. Door actuator according to one of Claims 1 or 2, characterized in that the part of the coupling, brake or the like movable between the released position and the locked position is a toothed disc (3) which is displaceable with respect to the release device (2) axially against the force of at least one contact pressure spring but is non-rotatable.

6. Door actuator according to Claim 1 or 2, characterized in that, in the released position, the movable part (3) having the ferromagnetic material comes so close to at least one permanent magnet (13), that the attraction force of the permanent magnet (13) exceeds the force of the contact pressure spring (5).

7. Door actuator according to Claim 6, characterized in that the movable part (3) consists at least essentially of ferromagnetic material and, in the released position, rests on at least one permanent magnet (13).

8. Door actuator according to Claim 6 or 7, characterized in that several permanent magnets (13) are provided which are arranged along a circle extending concentrically with respect to the spindle axis (7).